

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s) : Seok-Hyun Yun et al.  
Serial No. : To be assigned  
Filed : Herewith (April 27, 2006)  
Entitled : METHOD AND APPARATUS FOR PERFORMING OPTICAL  
IMAGING USING FREQUENCY-DOMAIN INTER-  
FEROMETRY  
Group Art Unit : To be Assigned  
Examiner : To be Assigned

INFORMATION DISCLOSURE STATEMENT

**Express Mail No.: EV 642 787 908 US**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached Form PTO 1449, and respectfully request that the listed documents be considered by the Examiner and made of record in the above-captioned application. Copies of the United States patent references listed on the Form PTO-1449 are not enclosed, but the PCT, foreign and non-patent references are enclosed.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art." If the Examiner applies the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under

United States law, applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should the documents be applied against the claims of the present application.

This submission is being filed together with the application. Therefore, applicants do not believe that any fee is due in connection with the submission of this paper. However, if any fee is due, or if any overpayment has been made, the Commissioner is authorized to charge any such fee or credit any overpayment, to our Deposit Account No. 50-2054.

Respectfully submitted,

**Dorsey & Whitney, LLP**



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Form PTO-1449 U.S. Department of Commerce  
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Atty. Docket No.  
036179/US/2 - 475387-  
00030

Serial No. **10/577562**  
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**INFORMATION DISCLOSURE STATEMENT  
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Applicant(s)  
Seok-Hyun Yun et al.

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**U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.								Date	Name	Class	Subclass	Filing Date if Appropriate
	2	3	3	9	7	5	4		January 25, 1944	P.H. Brace			
	4	6	0	1	0	3	6		July 15, 1986	Faxvog et al			
	4	6	3	1	4	9	8		December 23, 1986	Cutler			
	4	8	6	8	8	3	4		September 19, 1989	Fox et al			
	4	9	2	5	3	0	2		May 15, 1990	Cutler			
	4	9	6	5	4	4	1		October 23, 1990	Picard			
	4	9	9	3	8	3	4		February 19, 1991	Carlhoff et al			
	5	0	4	0	8	8	9		August 20, 1991	Keane			
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	5	1	9	7	4	7	0		March 30, 1993	Helfer et al			
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	5	3	2	1	5	0	1		June 14, 1994	Swanson et al			
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	5	3	8	3	4	6	7		January 24, 1995	Auer et al			
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	5	5	8	3	3	4	2		December 10, 1996	Koji Ichie			

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		5	5	9	0	6	6	0	January 7, 1997	MacAulay et al			
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		6	1	1	7	1	2	8	September 12, 2000	Kenton W. Gregory			

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	2002	0	1	6	3	6	2	2	November 7, 2002	Magnin et al.			

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	2003	0	0	2	3	1	5	3	January 30, 2003	Izatt et al			
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		6	6	8	0	7	8	0	January 20, 2004	Fee			

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Serial No. **104577562**  
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	2003	0	1	3	5	1	0	1	July 17, 2003	Webler			
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		5	4	5	9	3	2	5	October 17, 1995	Hueton et al.			
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		5	0	4	5	9	3	6	September 3, 1991	Lobb et al.			
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	2002	0	0	1	6	5	3	3	February 7, 2002	Marchitto et al.			
		6	8	1	6	7	4	3	November 9, 2004	Moreno et al.			
		6	3	2	4	4	1	9	November 27, 2001	Guzelsu et al.			
		6	5	6	4	0	8	9	May 13, 2003	Izatt et al.			
		6	1	9	8	9	5	6	March 6, 2001	Dunne, Shane			
		5	7	3	5	2	7	6	April 7, 1998	Lemelson, Jerome			
		6	5	5	8	3	2	4	May 6, 2003	Von Behren et al. **			

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		5	9	4	9	9	2	9	September 7, 1999	Hamm **			
		6	3	5	3	6	9	3	March 5, 2002	Kano et al. **			
		5	0	3	9	1	9	3	August 13, 1991	Snow et al. **			
	2002	0	1	2	2	2	4	6	September 5, 2002	Tearney et al. **			
		6	6	8	7	0	1	0	February 2004	Horii et al.			

**FOREIGN PATENT DOCUMENT**

		Document No.							Date	Country	Class	SubClass	Translator	
													Yes	No
	/	4	3	0	9	0	5	6	September 22, 1994	Germany				
		2	2	0	9	2	2	1	May 4, 1989	Great Britain				
		0	1	1	0	2	0	1	June 13, 1984	European				
		0	2	5	1	0	6	2	January 7, 1988	European				
		9	2	1	9	9	3	0	November 12, 1992	WIPO				
		9	3	0	3	6	7	2	March 4, 1993	WIPO				
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		9	9	5	7	5	0	7	November 11, 1999	WIPO				
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✕		0	2	3	8	0	4	0	May 16, 2002	WIPO**				
✕		1	4	2	6	7	9	9	June 9, 2004	European **				

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\* U.S. equivalent is provided.

\*\* References cited in International Search Report

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

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		D. Huang et al., "Optical Coherence Tomography," <u>SCIENCE</u> , Vol. 254, pages 1178-1181, November 1991
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		Saxer, et al., High Speed Fiber-Based Polarization-Sensitive Optical Coherence Tomography of in Vivo Human Skin," <u>Optical Society of America</u> , Vol. 25, pages 1355-1357, September 2000
		Oscar Eduardo Martinez, "3000 Times Grating Compress or with Positive Group Velocity Dispersion," <u>IEEE</u> , Vol. QE-23, pages 59-64, January 1987
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		Bashkansky, et al., "Signal Processing for Improving Field Cross-Correlation Function in Optical Coherence Tomography," <u>Optics &amp; Photonics News</u> , Vol. 9, pages 8137-8138, May 1998
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		Nicursor V. Iftimia et al., "A Portable, Low Coherence Interferometry Based Instrument for Fine Needle Aspiration Biopsy Guidance," Accepted to Review of Scientific Instruments, 2005
		Abbas, G.L., V.W.S. Chan et al., "Local-Oscillator Excess-Noise Suppression for Homodyne and Heterodyne-Detection," <u>Optics Letters</u> , Vol. 8, pages 419-421, August 1983 issue
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		Andretzky, P. et al., "Optical Coherence Tomography by Spectral Radar: Improvement of Signal-to-Noise Ratio," <u>The International Society for Optical Engineering, USA</u> , Vol. 3915, 2000
		Ballif, J. et al., "Rapid and Scalable Scans at 21 m/s in optical Low-Coherence Reflectometry," <u>Optics Letters</u> , Vol. 22, pages 757-759, June 1997
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		Beaud, P. et al., "Optical Reflectometry with Micrometer Resolution for the Investigation of Integrated Optical-Devices," <u>IEEE Journal of Quantum Electronics</u> , Vol. 25, pages 755-759, April 1989
		Bouma, Brett et al., "Power-Efficient Nonreciprocal Interferometer and Linear-Scanning Fiber-Optic Catheter for Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 24, pages 531-533, April 1999
		Brinkmeyer, E. et al., "Efficient Algorithm for Non-Equidistant Interpolation of Sampled Data," <u>Electronics Letters</u> , Vol. 28, page 693, March 1992
		Brinkmeyer, E. et al., "High-Resolution OCDR in Dispersive Wave-Guides," <u>Electronics Letters</u> , Vol. 26, pages 413-414, March 1990
		Chinn, S.R. et al., "Optical Coherence Tomography Using a Frequency-Tunable Optical Source," <u>Optics Letters</u> , Vol. 22, pages 340-342, March 1997
		Danielson, B.L. et al., "Absolute Optical Ranging Using Low Coherence Interferometry," <u>Applied Optics</u> , Vol. 30, page 2975, July 1991

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